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Relevance scale ☐ ☐ ☐ ☐ ☐**1** [Partitioned signature files: design issues and performance evaluation](#)

Dik Lun Lee, Chun-Wu Leng

April 1989 **ACM Transactions on Information Systems (TOIS)**, Volume 7 Issue 2

Publisher: ACM Press

Full text available: pdf(1.52 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A signature file acts as a filtering mechanism to reduce the amount of text that needs to be searched for a query. Unfortunately, the signature file itself must be exhaustively searched, resulting in degraded performance for a large file size. We propose to use a deterministic algorithm to divide a signature file into partitions, each of which contains signatures with the same "key." The signature keys in a partition can be extracted and represented as the partition's key. The s ...

2 [Document ranking on weight-partitioned signature files](#)

Dik Kun Lee, Liming Ren

April 1996 **ACM Transactions on Information Systems (TOIS)**, Volume 14 Issue 2

Publisher: ACM Press

Full text available: pdf(1.50 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A signature file organization, called the weight-partitioned signature file, for supporting document ranking is proposed. It employs multiple signature files, each of which corresponds to one term frequency, to represent terms with different term frequencies. Words with the same term frequency in a document are grouped together and hashed into the signature file corresponding to that term frequency. This eliminates the need to record the term frequency explicitly for each word. We investiga ...

Keywords: access method, document retrieval, information retrieval, signature file, superimposed coding, text retrieval

3 [Dynamic partitioning of signature files](#)

P. Zezula, F. Rabitti, P. Tiberio

October 1991 **ACM Transactions on Information Systems (TOIS)**, Volume 9 Issue 4

Publisher: ACM Press

Full text available: pdf(2.22 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)**4** [Declustering of key-based partitioned signature files](#)



Paolo Ciaccia, Paolo Tiberio, Pavel Zezula

September 1996 **ACM Transactions on Database Systems (TODS)**, Volume 21 Issue 3

Publisher: ACM Press

Full text available: pdf(2.58 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Access methods based on signature files can largely benefit from possibilities offered by parallel environments. To this end, an effective declustering strategy that would distribute signatures over a set of parallel independent disks has to be combined with a synergic clustering which is employed to avoid searching the whole signature file while executing a query. This article proposes two parallel signature file organizations, Hamming Filter (HF)

Keywords: error correcting codes, information retrieval, parallel independent disks, partial match queries, performance evaluation, superimposed coding

5 A study of partitioned vector register files

C. G. Lee, J. E. Smith

December 1992 **Proceedings of the 1992 ACM/IEEE conference on Supercomputing Supercomputing '92**

Publisher: IEEE Computer Society Press

Full text available: pdf(969.12 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

6 Frame-sliced partitioned parallel signature files



Fabio Grandi, Paolo Tiberio, Pavel Zezula

June 1992 **Proceedings of the 15th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '92**

Publisher: ACM Press

Full text available: pdf(1.14 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The retrieval capabilities of the signature file access method have become very attractive for many data processing applications dealing with both formatted and unformatted data. However, performance is still a problem, mainly when large files are used and fast response required. In this paper, a high performance signature file organization is proposed, integrating the latest developments both in storage structure and parallel computing architectures. It combines horizontal and vertical app ...

7 Partitioned register file for TTAs

Johan Janssen, Henk Corporaal

December 1995 **Proceedings of the 28th annual international symposium on Microarchitecture MICRO 28**

Publisher: IEEE Computer Society Press

Full text available: pdf(921.87 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 Estimating accesses in partitioned signature file organizations



Paolo Ciaccia, Pavel Zezula

April 1993 **ACM Transactions on Information Systems (TOIS)**, Volume 11 Issue 2

Publisher: ACM Press

Full text available: pdf(508.27 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We show that performance of some basic methods for the partitioning of signature files, namely Quick Filter and Fixed Prefix, can be easily evaluated by means of a closed formula. The approximation is based on well-known results from probability theory, and, as shown by simulations, introduces no appreciable errors when compared with the exact, cumbersome formulas used so far. Furthermore, we prove that the exact formulas for the two methods coincide. Although this does not imply that the t ...

Keywords: access method, information retrieval, performance evaluation, superimposed coding

9 Key-based partitioned bit-sliced signature file



Pavel Zezula, Paolo Ciaccia, Paolo Tiberio
September 1995 **ACM SIGIR Forum**, Volume 29 Issue 2

Publisher: ACM Press

Full text available: pdf(912.16 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

A new signature file organization is proposed as a combination of two orthogonal partitioning strategies, the key-based and the bit-sliced, respectively. The design results from theoretical analysis of these elementary approaches in which performance is analytically studied respecting a simplified abstract storage structure model. The new organization is able to achieve very high search performance for queries containing arbitrary number of query terms - bit-sliced (key-based) organization is go ...



10 Partitioned register files for VLIWs: a preliminary analysis of tradeoffs



Andrea Capitanio, Nikil Dutt, Alexandru Nicolau
December 1992 **ACM SIGMICRO Newsletter , Proceedings of the 25th annual international symposium on Microarchitecture MICRO 25**, Volume 23 Issue 1-2

Publisher: IEEE Computer Society Press, ACM Press

Full text available: pdf(1.09 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



11 A record and file partitioning model



Jair M. Babad
January 1977 **Communications of the ACM**, Volume 20 Issue 1

Publisher: ACM Press

Full text available: pdf(949.71 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

One of the main objectives in the design of a file system is the reduction of storage and data transfer costs. This paper presents a model in which several requests access the file system, and each request requires information from one or more variable length data-items. The probabilities of access and the distribution of each data-item's length are assumed to be known, and to be mutually independent. The file system uses one or more storage devices, and each record may be partitioned into ...

Keywords: file design, file partitioning, file system, record partitioning



12 The partitioned exponential file for database storage management

Christopher Jermaine, Edward Omiecinski, Wai Gen Yee
October 2007 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 16 Issue 4

Publisher: Springer-Verlag New York, Inc.

Additional Information: [full citation](#), [abstract](#)


The rate of increase in hard disk storage capacity continues to outpace the rate of decrease in hard disk seek time. This trend implies that the value of a seek is increasing exponentially relative to the value of storage.

With this trend in mind, we introduce the partitioned exponential file (PE file) which is a generic storage manager that can be customized for many different types of data (e.g., numerical, spatial, or temporal). The PE file is inten ...

Keywords: Data warehousing, Indexing, Storage management




13 Query processing and file management issues in partitioned databases (abstract)

 Esen Ozkarahan, H. Cem Bozsahin

January 1990 **Proceedings of the 1990 ACM annual conference on Cooperation CSC '90**

Publisher: ACM Press

Full text available:  [pdf\(69.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This study reviews the database partitioning techniques and elaborates on features of storage organization from efficiency and query processing standpoints. Methods for static files have excellent utilization records but require variable number of disk accesses, are prone to overflows, and may need re-organization when changes are made. Dynamic file schemes with directories have good retrieval query performance but tend to achieve low storage utilization, suffer from growing directory, and ...

14 Data partitioning and load balancing in parallel disk systems

Peter Scheuermann, Gerhard Weikum, Peter Zabback

February 1998 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 7 Issue 1


Publisher: Springer-Verlag New York, Inc.

Full text available:  [pdf\(310.27 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Parallel disk systems provide opportunities for exploiting I/O parallelism in two possible ways, namely via inter-request and intra-request parallelism. In this paper, we discuss the main issues in performance tuning of such systems, namely striping and load balancing, and show their relationship to response time and throughput. We outline the main components of an intelligent, self-reliant file system that aims to optimize striping by taking into account the requirements of the applications, an ...


Keywords: Data allocation, Disk cooling, File striping, Load balancing, Parallel disk systems, Performance tuning

15 Architectural considerations for next generation file systems

 Prashant Shenoy, Pawan Goyal, Harrick M. Vin


October 1999 **Proceedings of the seventh ACM international conference on Multimedia (Part 1) MULTIMEDIA '99**

Publisher: ACM Press

Full text available:  [pdf\(1.36 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We evaluate two architectural alternatives—partitioned and integrated—for designing next generation file systems. Whereas a partitioned server employs a separate file system for each application class, an integrated file server multiplexes its resources among all application classes; we evaluate the performance of the two architectures with respect to sharing of disk bandwidth among the application classes. We show that although the problem of sharing disk bandwidth in integrate ...

16 Performance issues: A heuristic approach to attribute partitioning

 Michael Hammer, Bahram Niamir

May 1979 **Proceedings of the 1979 ACM SIGMOD international conference on Management of data SIGMOD '79**

Publisher: ACM Press

Full text available:  [pdf\(1.22 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

One technique that is sometimes employed to enhance the performance of a database management system is known as attribute partitioning. This is the process of dividing the attributes of a file into separately stored subfiles. By storing together those attributes that are frequently requested together by transactions, and by separating those that are not, attribute partitioning can reduce the number of pages that are transferred from secondary storage to primary memory in the processing of a tran ...

17 The Vesta parallel file system



Peter F. Corbett, Dror G. Feitelson

August 1996 **ACM Transactions on Computer Systems (TOCS)**, Volume 14 Issue 3

Publisher: ACM Press

Full text available: [pdf\(649.08 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The Vesta parallel file system is designed to provide parallel file access to application programs running on multicomputers with parallel I/O subsystems. Vesta uses a new abstraction of files: a file is not a sequence of bytes, but rather it can be partitioned into multiple disjoint sequences that are accessed in parallel. The partitioning—which can also be changed dynamically—reduces the need for synchronization and coordination during the access. Some control over the layout ...

Keywords: data partitioning, parallel computing, parallel file system

18 Algorithms for loading parallel grid files



Jianzhong Li, Doron Rotem, Jaideep Srivastava

June 1993 **ACM SIGMOD Record , Proceedings of the 1993 ACM SIGMOD international conference on Management of data SIGMOD '93**, Volume 22 Issue 2

Publisher: ACM Press

Full text available: [pdf\(823.08 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The paper describes three fast loading algorithms for grid files on a parallel shared nothing architecture. The algorithms use dynamic programming and sampling to effectively partition the data file among the processors to achieve maximum parallelism in answering range queries. Each processor then constructs in parallel its own portion of the grid file. Analytical results and simulations are given for the three algorithms.

19 Dynamic Metadata Management for Petabyte-Scale File Systems

Sage A. Weil, Kristal T. Pollack, Scott A. Brandt, Ethan L. Miller

November 2004 **Proceedings of the 2004 ACM/IEEE conference on Supercomputing SC '04**

Publisher: IEEE Computer Society

Full text available: [pdf\(175.04 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#)

In petabyte-scale distributed file systems that decouple read and write from metadata operations, behavior of the metadata server cluster will be critical to overall system performance and scalability. We present a dynamic subtree partitioning and adaptive metadata management system designed to efficiently manage hierarchical metadata workloads that evolve over time. We examine the relative merits of our approach in the context of traditional workload partitioning strategies, and demonstrate the ...

20 A case for a complexity-effective, width-partitioned microarchitecture



Olivier Rochecouste, Gilles Pokam, André Seznec

September 2006 **ACM Transactions on Architecture and Code Optimization (TACO)**, Volume 3 Issue 3

Publisher: ACM Press

Full text available: [pdf\(504.95 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The analysis of program executions reveals that most integer and multimedia applications make heavy use of narrow-width operations, i.e., instructions exclusively using narrow-width operands and producing a narrow-width result. Moreover, this usage is relatively well distributed over the application. We observed this program property on the MediaBench and SPEC2000 benchmarks with about 40% of the instructions being narrow-width operations. Current superscalar processors use 64-bit datapath ...

Keywords: Power analysis

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Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [next](#)Relevance scale ☐ ☐ ☐ ☐ ☐**1 [Quicksort algorithms with an early exit for sorted subfiles](#)**

Roger L. Wainwright

February 1987 **Proceedings of the 15th annual conference on Computer Science CSC '87**

Publisher: ACM Press

Full text available: pdf(816.70 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Quicksort algorithm is known to be one of the most efficient internal sorting techniques. Quicksort has received considerable attention almost from the moment of its invention. This paper reviews some of the important improvements to Quicksort that have appeared in the literature. Historically, the improvements to Quicksort have been in one of the following areas: (1) algorithms for determining a better pivot value, (2) algorithms that consider the size of the generated subfiles, and (3 ...

2 [An extensible file system for hydra](#)

Guy Almes, George Robertson

May 1978 **Proceedings of the 3rd international conference on Software engineering ICSE '78**

Publisher: IEEE Press

Full text available: pdf(627.82 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An extensible file system has been designed and implemented for Hydra, an advanced capability-based operating system. This system demonstrates three notable contributions to subsystem design: - It provides a protected and efficient implementation via user-level code of functions ordinarily implemented as part of a conventional system's monolithic privileged section, - It provides practical solutions to two protection problems, the Modification Problem and the Confinement ...

3 [A class of sorting algorithms based on Quicksort](#)

Roger L. Wainwright

April 1985 **Communications of the ACM**, Volume 28 Issue 4

Publisher: ACM Press

Full text available: pdf(690.63 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Bsort, a variation of Quicksort, combines the interchange technique used in Bubble sort with the Quicksort algorithm to improve the average behavior of Quicksort and eliminate the worst case situation of $O(n^2)$ comparisons for sorted or nearly sorted lists. Bsort works best for nearly sorted lists or nearly sorted in reverse.

On searching transposed files

D. S. Batory

December 1979 **ACM Transactions on Database Systems (TODS)**, Volume 4 Issue 4

Publisher: ACM Press

Full text available: pdf(947.86 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A transposed file is a collection of nonsequential files called subfiles. Each subfile contains selected attribute data for all records. It is shown that transposed file performance can be enhanced by using a proper strategy to process queries. Analytic cost expressions for processing conjunctive, disjunctive, and batched queries are developed and an effective heuristic for minimizing query processing costs is presented. Formulations of the problem of optimally processing queries for a part ...

Keywords: NP-complete, file searching, inverted file, multilist, query processing, transposed file

5 The Vesta parallel file system

Peter F. Corbett, Dror G. Feitelson

August 1996 **ACM Transactions on Computer Systems (TOCS)**, Volume 14 Issue 3

Publisher: ACM Press

Full text available: pdf(649.08 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The Vesta parallel file system is designed to provide parallel file access to application programs running on multicomputers with parallel I/O subsystems. Vesta uses a new abstraction of files: a file is not a sequence of bytes, but rather it can be partitioned into multiple disjoint sequences that are accessed in parallel. The partitioning—which can also be changed dynamically—reduces the need for synchronization and coordination during the access. Some control over the layout ...

Keywords: data partitioning, parallel computing, parallel file system

6 On the selection of efficient record segmentations and backup strategies for large shared databases

Salvatore T. March, Gary D. Scudder

September 1984 **ACM Transactions on Database Systems (TODS)**, Volume 9 Issue 3

Publisher: ACM Press

Full text available: pdf(1.97 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In recent years the information processing requirements of business organizations have expanded tremendously. With this expansion, the design of databases to efficiently manage and protect business information has become critical. We analyze the impacts of record segmentation (the assignment of data items to segments defining subfiles), an efficiency-oriented design technique, and of backup and recovery strategies, a data protection technique, on the overall ...

7 Performance issues: A heuristic approach to attribute partitioning

Michael Hammer, Bahram Niamir

May 1979 **Proceedings of the 1979 ACM SIGMOD international conference on Management of data SIGMOD '79**

Publisher: ACM Press

Full text available: pdf(1.22 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

One technique that is sometimes employed to enhance the performance of a database management system is known as attribute partitioning. This is the process of dividing the attributes of a file into separately stored subfiles. By storing together those attributes that are frequently requested together by transactions, and by separating those that are not,


attribute partitioning can reduce the number of pages that are transferred from secondary storage to primary memory in the processing of a tran ...

8 Physical structures and implementation I: The use of cluster analysis in physical data base design

Jeffrey A. Hoffer, Dennis G. Severance

September 1975 **Proceedings of the 1st International Conference on Very Large Data Bases VLDB '75**

Publisher: ACM Press

Full text available:  [pdf\(1.06 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The physical structure and relative placement of information elements within a data base is critical for the efficient design of a computerized information system which is shared by a community of users. Traditionally the selection among alternative structural designs has been handled largely via heuristics. Recent research has shown that a number of significant design problems can be stated mathematically as nonlinear, integer, zero-one programming problems. In concept, therefore, mathematic ...

9 Physical storage structures: A dynamic clustering technique for physical database design

J. M. Chang, K. S. Fu

May 1980 **Proceedings of the 1980 ACM SIGMOD international conference on Management of data SIGMOD '80**

Publisher: ACM Press

Full text available:  [pdf\(1.05 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


In this study, a technique of performing multiple attribute clustering in dynamic databases has been investigated. We have transformed the problem of performing multiple attribute clustering into a problem of dynamically partitioning the attribute space. The optimal number of partitioning of the attribute space in a dynamic database environment has been analyzed, the partitioning direction is controlled by a discriminator sequence. The design of the discriminator sequence to obtain the optimal p ...

10 A unifying model of physical databases

D. S. Batory, C. C. Gotlieb

December 1982 **ACM Transactions on Database Systems (TODS)**, Volume 7 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(1.91 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A unifying model for the study of database performance is proposed. Applications of the model are shown to relate and extend important work concerning batched searching, transposed files, index selection, dynamic hash-based files, generalized access path structures, differential files, network databases, and multifile query processing.


Keywords: decomposition, linksets, simple files, unifying model

11 Implementing Quicksort programs

Robert Sedgewick

October 1978 **Communications of the ACM**, Volume 21 Issue 10

Publisher: ACM Press

Full text available:  [pdf\(1.09 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper is a practical study of how to implement the Quicksort sorting algorithm and its best variants on real computers, including how to apply various code optimization techniques. A detailed implementation combining the most effective improvements to Quicksort is given, along with a discussion of how to implement it in assembly language. Analytic results describing the performance of the programs are summarized. A variety of special situations are considered from a practical standpoint ...

Keywords: Quicksort, analysis of algorithms, code optimization, sorting

12 The galley parallel file system



Nils Nieuwejaar, David Kotz

January 1996 **Proceedings of the 10th international conference on Supercomputing ICS '96**

Publisher: ACM Press

Full text available: [pdf\(936.87 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



13 CASS: Computer aided schematic system

Hedayat Markus Bayegan

January 1977 **Proceedings of the 14th conference on Design automation DAC '77**

Publisher: IEEE Press

Full text available: [pdf\(663.23 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Our interactive system for computer aided editing of schematics (CASS) is described here. The system may be used alone as well as a part of an integrated data-base oriented design environment. In isolated operation, a number of utility programs provide for the use of schematic data in succeeding design phases. As part of an integrated system this schematic data may be stored in, and retrieved from, the data-base ...



14 A new class of two stage parallel sorting schemes



J. Cheung, S. Dhall, S. Lakshmivarahan, L. Miller, B. Walker

January 1982 **Proceedings of the ACM '82 conference ACM 82**

Publisher: ACM Press

Full text available: [pdf\(307.57 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A two stage parallel sorting scheme is presented in which in the first stage the input file is divided into a number of subfiles and sorted in parallel using the conventional heap sort algorithm. The second stage then merges the sorted sub-files in parallel. It is shown that a given input file of size n can be sorted in $O(n)$ time using $O(\log n)$ processors. The speed-up ratio, which is a measure of the effectiveness of parallel processing, with respect to the best sequential algorithm, is as ...



15 A record and file partitioning model



Jair M. Babad

January 1977 **Communications of the ACM**, Volume 20 Issue 1

Publisher: ACM Press

Full text available: [pdf\(949.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

One of the main objectives in the design of a file system is the reduction of storage and data transfer costs. This paper presents a model in which several requests access the file system, and each request requires information from one or more variable length data-items. The probabilities of access and the distribution of each data-item's length are assumed to be known, and to be mutually independent. The file system uses one or more storage devices, and each record may be partitioned into ...



Keywords: file design, file partitioning, file system, record partitioning

16 Multicollective I/O: A technique for exploiting inter-file access patterns




Gokhan Memik, Mahmut T. Kandemir, Wei-Keng Liao, Alok Choudhary

August 2006 **ACM Transactions on Storage (TOS)**, Volume 2 Issue 3

Publisher: ACM Press

Full text available: Additional Information:



 [pdf\(1.08 MB\)](#)[full citation](#), [abstract](#), [references](#), [index terms](#)


The increasing gap between processor cycle times and access times to storage devices makes it necessary to use powerful optimizations. This is especially true for applications in the parallel computing domain that frequently perform large amounts of file I/O. Collective I/O strategy that coordinates the processes to perform I/O on each other's behalf has demonstrated a significant performance improvement. This article proposes a new concept called Multicollective I/O (MCIO) that expands the coll ...

Keywords: Parallel I/O, collective I/O, file accesses, runtime library, software optimizations

17 Techniques for Structuring Database Records



Salvatore T. March

March 1983 **ACM Computing Surveys (CSUR)**, Volume 15 Issue 1**Publisher:** ACM PressFull text available:  [pdf\(3.02 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

18 The role of parallelism in file organization



Leslie L. Miller, Tyne Liang

March 1985 **Proceedings of the 1985 ACM thirteenth annual conference on Computer Science CSC '85****Publisher:** ACM PressFull text available:  [pdf\(678.95 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The role parallelism can play in searching large collections of data is investigated. Three primary methods of making use of parallelism are discussed. The first is the traditional use of parallelism in searching, that is to speed up the search operation. The second was of parallelism discussed in the paper is to extend the facilities of a file organization, e.g. the ability of the operation to handle insertions. The last use of parallelism investigated is the use of the parallel processing ...

19 Dynamic interpolation search



Kurt Mehlhorn, Athanasios Tsakalidis


July 1993 **Journal of the ACM (JACM)**, Volume 40 Issue 3**Publisher:** ACM PressFull text available:  [pdf\(767.99 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: dynamization, search tree

20 Session 1: elements of success for user services: Elements of success for user services



Lyle B. Smith

November 1976 **Proceedings of the 4th annual ACM SIGUCCS conference on User services SIGUCCS '76****Publisher:** ACM PressFull text available:  [pdf\(551.92 KB\)](#)Additional Information: [full citation](#), [abstract](#), [citations](#)

There are five main components to User Services. The four usually considered are documentation, consultation, a software library and teaching. This paper examines the key features of each of these four services that are necessary for success. The fifth, often overlooked component, upon which the other four depend for success, is discussed in some detail. This basic and most important ingredient of successful delivery of computing services is "knowing the users and their needs".

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Result page: [1](#) [2](#) [3](#) [next](#)Relevance scale ☐ ☐ ☐ ☐ ☐1 [Posters: Rateless codes for data dissemination in sensor networks](#)

Andrew Hagedorn, David Starobinski, Ari Trachtenberg

October 2006 **Proceedings of the 4th international conference on Embedded networked sensor systems SenSys '06**

Publisher: ACM Press

Full text available: [pdf\(174.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper discusses the use of rateless codes to increase performance in wireless sensor networks.

Keywords: motes, rateless codes, wireless2 [Beyond striping: the bridge multiprocessor file system](#)

P. C. Dibble, M. L. Scott

September 1989 **ACM SIGARCH Computer Architecture News**, Volume 17 Issue 5

Publisher: ACM Press

Full text available: [pdf\(644.43 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

High-performance parallel computers require high-performance file systems. Exotic I/O hardware will be of little use if file system software runs on a single processor of a many-processor machine. We believe that cost-effective I/O for large multiprocessors can best be obtained by spreading both data and file system computation over a large number of processors and disks. To assess the effectiveness of this approach, we have implemented a prototype system called Bridge, and have studied its perf ...

3 [Extending document engineering formats: The Mars project: PDF in XML](#)

Matthew R. B. Hardy

August 2007 **Proceedings of the 2007 ACM symposium on Document engineering DocEng '07**
















Publisher: ACM Press

Full text available: [pdf\(1.15 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Portable Document Format (PDF) is a page-oriented, graphically rich document format based on PostScript semantics. It is the file format underlying the Adobe® Acrobat® viewers and is used throughout the publishing industry for final form documents and document interchange. Beyond document layout, PDF provides enhanced capabilities, which include logical structure, forms, 3D, movies and a number of other rich features.

Developers and system integrators face challenges mani ...

Keywords: Mars, PDF, SVG, XML, package, zip

- 4 Lab report special section: information retrieval research in the University of Sheffield 
 Peter Willett
 December 1997 **ACM SIGIR Forum**, Volume 31 Issue 2
Publisher: ACM Press
 Full text available:  [pdf\(644.64 KB\)](#) Additional Information: [full citation](#), [index terms](#)
- 5 Out-of-Core Isosurface Extraction of Time-Varying Fields over Irregular Grids 
 Yi-Jen Chiang
 October 2003 **Proceedings of the 14th IEEE Visualization 2003 (VIS'03) VIS '03**
Publisher: IEEE Computer Society
 Full text available:  [pdf\(1.54 MB\)](#) Additional Information: [full citation](#), [abstract](#)
- In this paper, we propose a novel out-of-core isosurface extraction technique for large time-varying fields over irregular grids. We employ our meta-cell technique to explore the spatial coherence of the data, and our time tree algorithm to consider the temporal coherence as well. Our one-time preprocessing phase first partitions the dataset into meta-cells that cluster spatially neighboring cells together and are stored in disk. We then build a time tree to index the meta-cells for fast isosurf ...
- Keywords:** isosurface extraction, out-of-core techniques, time-varying fields, irregular grids
- 6 A distributed file service based on optimistic concurrency control 
 Sape J. Mullender, Andrew S. Tanenbaum
 December 1985 **ACM SIGOPS Operating Systems Review , Proceedings of the tenth ACM symposium on Operating systems principles SOSP '85**, Volume 19 Issue 5
Publisher: ACM Press
 Full text available:  [pdf\(910.04 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
- 7 A new class of two stage parallel sorting schemes 
 J. Cheung, S. Dhall, S. Lakshmivarahan, L. Miller, B. Walker
 January 1982 **Proceedings of the ACM '82 conference ACM 82**
Publisher: ACM Press
 Full text available:  [pdf\(307.57 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
- A two stage parallel sorting scheme is presented in which in the first stage the input file is divided into a number of subfiles and sorted in parallel using the conventional heap sort algorithm. The second stage then merges the sorted sub-files in parallel. It is shown that a given input file of size n can be sorted in $O(n)$ time using $O(\log n)$ processors. The speed-up ratio, which is a measure of the effectiveness of parallel processing, with respect to the best sequential algorithm, is as ...
- 8 A priority strategy on RISC for real-time multitasking software applications 
 A. Elkateeb, T. Le-Ngoc
 June 1989 **ACM SIGARCH Computer Architecture News**, Volume 17 Issue 4
Publisher: ACM Press
 Full text available:  [pdf\(393.49 KB\)](#) Additional Information: [full citation](#), [index terms](#)
- 9 Quicksort algorithms with an early exit for sorted subfiles 



Roger L. Wainwright

February 1987 **Proceedings of the 15th annual conference on Computer Science CSC '87**

Publisher: ACM Press

Full text available: pdf(816.70 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Quicksort algorithm is known to be one of the most efficient internal sorting techniques. Quicksort has received considerable attention almost from the moment of its invention. This paper reviews some of the important improvements to Quicksort that have appeared in the literature. Historically, the improvements to Quicksort have been in one of the following areas: (1) algorithms for determining a better pivot value, (2) algorithms that consider the size of the generated subfiles, and (3) ...

10 Multi-disk management algorithms

Miron Livny, Setrag Khoshafian, Haran Boral

May 1987 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1987 ACM SIGMETRICS conference on Measurement and modeling of computer systems SIGMETRICS '87**, Volume 15 Issue 1

Publisher: ACM Press

Full text available: pdf(970.73 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We investigate two schemes for placing data on multiple disks. We show that declustering (spreading each file across several disks) is inherently better than clustering (placing each file on a single disk) due to a number of reasons including parallelism and uniform load on all disks.

11 Database design tools II: Selection of file organization using an analytic model

S. B. Yao, A. G. Merten

September 1975 **Proceedings of the 1st International Conference on Very Large Data Bases VLDB '75**

Publisher: ACM Press

Full text available: pdf(947.49 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The problems associated with file design have recently received increased attention. One approach to their solution has been the development of file models. These models can be employed to study alternate file structures and aid the file design process. In this paper, a single model and cost function is developed to characterize most of the file structure alternatives and the selection of file structures for a design problem is automated. A file design system is developed that can be used by ...

12 Random sampling from hash files

Frank Olken, Doron Rotem, Ping Xu

May 1990 **ACM SIGMOD Record , Proceedings of the 1990 ACM SIGMOD international conference on Management of data SIGMOD '90**, Volume 19 Issue 2

Publisher: ACM Press

Full text available: pdf(1.25 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


In this paper we discuss simple random sampling from hash files on secondary storage. We consider both iterative and batch sampling algorithms from both static and dynamic hashing methods. The static methods considered are open addressing hash files and hash files with separate overflow chains. The dynamic hashing methods considered are Linear Hash files [Lit80] and Extendible Hash files [FNPS79]. We give the cost of sampling in terms of the cost of successfully searching a hash file and sh ...

13 Office documents on a database kernel—filing, retrieval, and archiving

P. Zaback, H. B. Paul, U. Deppisch

March 1990 **ACM SIGOIS Bulletin , Proceedings of the ACM SIGOIS and IEEE CS TC-OA conference on Office information systems**, Volume 11 Issue 2-3

Publisher: ACM Press

Full text available:  pdf(1.24 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

One of the main component of integrated office systems is the large central filing system. It efficiently stores, retrieves and searches office documents containing text, images, graphics, data and voice. We propose to implement a filing system on top of the Darmstadt database system (DASDBS), which is designed as a data management kernel for both standard and non-standard applications. This paper investigates the choice of appropriate storage structures for the filing system objects and th ...


14 Use of an on-line, time-shared graphics system to design and document printed circuit boards



Leonard Marks

June 1976 **Proceedings of the 13th conference on Design automation DAC '76**

Publisher: ACM Press

Full text available:  pdf(1.44 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A very advanced computer aided design system was recently put into operation at Martin Marietta's Orlando Division. Its purpose was to provide engineering personnel with a powerful tool for significantly lowering the cost and schedule time required to design and document complex printed circuit boards. This paper describes how the system is utilized and interfaced with related automated activities.


15 An extensible file system for hydra



Guy Almes, George Robertson

May 1978 **Proceedings of the 3rd international conference on Software engineering ICSE '78**

Publisher: IEEE Press

Full text available:  pdf(627.82 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An extensible file system has been designed and implemented for Hydra, an advanced capability-based operating system. This system demonstrates three notable contributions to subsystem design: - It provides a protected and efficient implementation via user-level code of functions ordinarily implemented as part of a conventional system's monolithic privileged section, - It provides practical solutions to two protection problems, the Modification Problem and the Confinement ...


16 The access control mechanism of a database computer (DBC)



M. Jaishankar Menon, David K. Hsiao

March 1980 **ACM SIGIR Forum , Proceedings of the fifth workshop on Computer architecture for non-numeric processing CAW '80**, Volume 15 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.10 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The database computer (DBC) is a specialized back-end computer which is capable of managing data 1010 bytes in size and supporting known data models such as relational, network, hierarchical and attribute-based models. It is also perhaps the first database machine to have a built-in security mechanism for access control. At the outset, the security mechanism was made an integral part of the DBC design. This design philosophy not only allowed us to construct a ...


17 Session 8a: online documentation: Managing computer center documentation with an integrated database



J. M. Caton, J. R. Sack

November 1976 **Proceedings of the 4th annual ACM SIGUCCS conference on User services SIGUCCS '76**

Publisher: ACM Press

Full text available:  pdf(589.53 KB)Additional Information: [full citation](#), [references](#)

18 Session 1: elements of success for user services: Elements of success for user services



Lyle B. Smith

November 1976 **Proceedings of the 4th annual ACM SIGUCCS conference on User services SIGUCCS '76**

Publisher: ACM Press

Full text available: [pdf\(551.92 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#)

There are five main components to User Services. The four usually considered are documentation, consultation, a software library and teaching. This paper examines the key features of each of these four services that are necessary for success. The fifth, often overlooked component, upon which the other four depend for success, is discussed in some detail. This basic and most important ingredient of successful delivery of computing services is "knowing the users and their needs".

19 Physical storage structures: A dynamic clustering technique for physical database design



J. M. Chang, K. S. Fu

May 1980 **Proceedings of the 1980 ACM SIGMOD international conference on Management of data SIGMOD '80**

Publisher: ACM Press

Full text available: [pdf\(1.05 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In this study, a technique of performing multiple attribute clustering in dynamic databases has been investigated. We have transformed the problem of performing multiple attribute clustering into a problem of dynamically partitioning the attribute space. The optimal number of partitioning of the attribute space in a dynamic database environment has been analyzed, the partitioning direction is controlled by a discriminator sequence. The design of the discriminator sequence to obtain the optimal p ...

20 Implementing Quicksort programs



Robert Sedgewick

October 1978 **Communications of the ACM**, Volume 21 Issue 10

Publisher: ACM Press

Full text available: [pdf\(1.09 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper is a practical study of how to implement the Quicksort sorting algorithm and its best variants on real computers, including how to apply various code optimization techniques. A detailed implementation combining the most effective improvements to Quicksort is given, along with a discussion of how to implement it in assembly language. Analytic results describing the performance of the programs are summarized. A variety of special situations are considered from a practical standpoint ...

Keywords: Quicksort, analysis of algorithms, code optimization, sorting

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IET CNF	IET Conference Proceeding
IEEE STD	IEEE Standard

1. File partitioning as a means to reduce lock contention in the multiprocessor environment

Hoevel, L.; Panfilov, O.;

[System Sciences, 1992. Proceedings of the Twenty-Fifth Hawaii International Conference on](#)

Volume i, 7-10 Jan. 1992 Page(s):211 - 217 vol.1

Digital Object Identifier 10.1109/HICSS.1992.183165

[Abstract](#) | Full Text: [PDF](#)(416 KB) IEEE CNF[Rights and Permissions](#)

2. Register File Partitioning with Constraint Programming

Salmela, P.; Chung-Ching Shen; Bhattacharyya, S.S.; Takala, J.;

[System-on-Chip, 2006. International Symposium on](#)

Nov. 2006 Page(s):1 - 4

Digital Object Identifier 10.1109/ISSOC.2006.321986

[Abstract](#) | Full Text: [PDF](#)(4939 KB) IEEE CNF[Rights and Permissions](#)

3. A Java Implementation of MPI-I/O-Oriented Random Access File Class in AgentTeamwork Grid Computing Middleware

Phillips, Joshua; Fukuda, Munehiro; Miyauchi, Junpei;

[Communications, Computers and Signal Processing, 2007. PacRim 2007. IEEE Pacific Rim Conference on](#)

22-24 Aug. 2007 Page(s):149 - 152

Digital Object Identifier 10.1109/PACRIM.2007.4313199

[Abstract](#) | Full Text: [PDF](#)(874 KB) IEEE CNF[Rights and Permissions](#)

4. Algorithms for multidimensional partitioning of static files

Rotem, D.; Segev, A.;

[Software Engineering, IEEE Transactions on](#)

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Digital Object Identifier 10.1109/32.9056

[Abstract](#) | Full Text: [PDF](#)(1008 KB) IEEE JNL[Rights and Permissions](#)

5. Inverted file partitioning schemes in multiple disk systems

Byeong-Soo Jeong; Omiecinski, E.;

[Parallel and Distributed Systems, IEEE Transactions on](#)

Volume 6, Issue 2, Feb. 1995 Page(s):142 - 153

Digital Object Identifier 10.1109/71.342125

[Abstract](#) | Full Text: [PDF](#)(948 KB) IEEE JNL[Rights and Permissions](#)

6. Implementation and performance of a parallel file system for high performance distributed applications

Ligon, W.B., III; Ross, R.B.;

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6-9 Aug. 1996 Page(s):471 - 480

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[Rights and Permissions](#)**7. A partitioning method for grid file directories**

Chun, S.H.; Hedrick, G.E.; Lu, H.; Fisher, D.D.;

[Computer Software and Applications Conference, 1989. COMPSAC 89., Proceedings of the 13th Annual International](#)

20-22 Sept. 1989 Page(s):271 - 277

Digital Object Identifier 10.1109/CMPSAC.1989.65095

[Abstract](#) | Full Text: [PDF](#)(360 KB) IEEE CNF[Rights and Permissions](#)**8. Lock contention analysis in multiprocessor systems**

Hoevel, L.; Panfilov, O.;

[System Sciences, 1990., Proceedings of the Twenty-Third Annual Hawaii International Conference on](#)
Volume i, 2-5 Jan. 1990 Page(s):321 - 327 vol.1

Digital Object Identifier 10.1109/HICSS.1990.205131

[Abstract](#) | Full Text: [PDF](#)(404 KB) IEEE CNF[Rights and Permissions](#)**9. Data compression with Huffman coding; an efficient dynamic implementation using file partitioning**

Saeed, F.; Lu, H.; Hedrick, G.E.;

[Applied Computing, 1990., Proceedings of the 1990 Symposium on](#)

5-6 April 1990 Page(s):348 - 354

Digital Object Identifier 10.1109/SOAC.1990.82195

[Abstract](#) | Full Text: [PDF](#)(404 KB) IEEE CNF[Rights and Permissions](#)**10. Fault-tolerant distributed mass storage for LHC computing**

Wiebalck, A.; Breuer, P.T.; Lindenstruth, V.; Stinbeck, T.M.;

[Cluster Computing and the Grid, 2003. Proceedings. CCGrid 2003. 3rd IEEE/ACM International Symposium on](#)

12-15 May 2003 Page(s):266 - 273

Digital Object Identifier 10.1109/CCGRID.2003.1199377

[Abstract](#) | Full Text: [PDF](#)(350 KB) IEEE CNF[Rights and Permissions](#)**11. Performance of the Vesta parallel file system**

Feitelson, D.G.; Corbett, P.F.; Prost, J.-P.;

[Parallel Processing Symposium, 1995. Proceedings., 9th International](#)

25-28 April 1995 Page(s):150 - 158

Digital Object Identifier 10.1109/IPPS.1995.395926

[Abstract](#) | Full Text: [PDF](#)(896 KB) IEEE CNF[Rights and Permissions](#)**12. Parallel access to files in the Vesta file system**

Corbett, P.F.; Feitelson, D.G.; Prost, J.-P.; Baylor, S.J.;

[Supercomputing '93. Proceedings](#)

15-19 Nov. 1993 Page(s):472 - 481

Digital Object Identifier 10.1109/SUPERC.1993.1263495

[Abstract](#) | Full Text: [PDF](#)(820 KB) IEEE CNF[Rights and Permissions](#)**13. When to use partitioned signature files for retrieving information in multimedia systems**

Edirisooriya, S.; Edirisooriya, G.;

[Compcon Spring '93. Digest of Papers.](#)

22-26 Feb. 1993 Page(s):23 - 28


Digital Object Identifier 10.1109/CMPCON.1993.289629

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- 14. Full-wave moment method simulation of large-scale antenna arrays on high performance computing platforms**
Donghoon Chun; Sabet, K.;
[Antennas and Propagation Society International Symposium, 2003. IEEE](#)
Volume 2, 22-27 June 2003 Page(s):464 - 467 vol.2
Digital Object Identifier 10.1109/APS.2003.1219276
[Abstract](#) | Full Text: [PDF](#)(248 KB) IEEE CNF
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- 15. Scalable Web server cluster design with workload-aware request distribution strategy WARD**
Cherkasova, L.; Karlsson, M.;
[Advanced Issues of E-Commerce and Web-Based Information Systems, WECWIS 2001, Third International Workshop on.](#)
21-22 June 2001 Page(s):212 - 221
Digital Object Identifier 10.1109/WECWIS.2001.933926
[Abstract](#) | Full Text: [PDF](#)(1152 KB) IEEE CNF
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- 16. Register organization for media processing.**
Rixner, S.; Dally, W.J.; Khailany, B.; Mattson, P.; Kapasi, U.J.; Owens, J.D.;
[High-Performance Computer Architecture, 2000. HPCA-6. Proceedings. Sixth International Symposium on](#)
8-12 Jan. 2000 Page(s):375 - 386
Digital Object Identifier 10.1109/HPCA.2000.824366
[Abstract](#) | Full Text: [PDF](#)(540 KB) IEEE CNF
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- 17. Tracing Worm Break-in and Contaminations via Process Coloring: A Provenance-Preserving Approach**
Jiang Xuxian ; Buchholz Florian ; Walters Aaron ; Xu Dongyan ; Wang Yi-Min ; Spafford Eugene ;
[IEEE Transactions on Parallel and Distributed Systems : Accepted for future publication](#)
Volume PP, Issue 99, 2007 Page(s):1 - 1
Digital Object Identifier 10.1109/TPDS.2007.70765
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IEEE STD	IEEE Standard

Article Information**1. Optimal bucket allocation design of k-ary MKH files for partial match retrieval**

Chen, C.Y.; Lin, H.F.; Chang, C.C.; Lee, R.C.T.;
[Knowledge and Data Engineering, IEEE Transactions on](#)
Volume 9, [Issue 1](#), Jan.-Feb. 1997 Page(s):148 - 160
Digital Object Identifier 10.1109/69.567057

[Abstract](#) | Full Text: [PDF](#)(428 KB) IEEE JNL[Rights and Permissions](#)**2. MS-I/O: A Distributed Multi-Storage I/O System**

Xiaohui Shen; Choudhary, A.;
[Cluster Computing and the Grid, 2002. 2nd IEEE/ACM International Symposium on](#)
21-24 May 2002 Page(s):163 - 163
Digital Object Identifier 10.1109/CCGRID.2002.1017124

[Abstract](#) | Full Text: [PDF](#)(216 KB) IEEE CNF[Rights and Permissions](#)**3. Optimizing the reliable distribution of large files within CDNs**

Cherkasova, L.;
[Computers and Communications, 2005. ISCC 2005. Proceedings. 10th IEEE Symposium on](#)
27-30 June 2005 Page(s):692 - 697
Digital Object Identifier 10.1109/ISCC.2005.116

[Abstract](#) | Full Text: [PDF](#)(160 KB) IEEE CNF[Rights and Permissions](#)**4. Adaptive file system consistency for unreliable mobile computing environments**

Dwyer, D.;
[Computer Performance and Dependability Symposium, 1998. IPDS '98. Proceedings. IEEE International](#)
7-9 Sept. 1998 Page(s):164 - 173
Digital Object Identifier 10.1109/IPDS.1998.707719

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Babad, J.M. A record and **file partitioning** model. Rep. No. 7358, Center for Mathematical Research in Business and Economics, U. of Chicago, Chicago, Ill.,

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